

**Participants:** PhD students, master students, postdoctoral researchers / junior scientists at the beginning of their career (in academia or industry)

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### Registration

Registration fee: Participants from academic institutions      65 Euro  
Industrial participants      280 Euro

**Early registration** including application for funding: before July 18th, 2016

**Late registration:** until September 4th, 2016

For **online registration**, please, visit our website:

<http://www.uni-regensburg.de/summer-school-medchem/>

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### Scientific contributions, preparation and submission of abstracts

Participants (registration required) are invited to present posters (maximum poster size: 'A0 oversize', 90 cm width x 120 cm height).

**Online abstract submission is required before August 15th, 2016**

For instructions and a template, please visit the above mentioned website.

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### Payment

By bank transfer. For detailed information, please, visit our website.

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### Fellowships

Limited funds are available for participants from abroad who will need financial aid to cover part of their expenses. In this case, a poster presentation is mandatory. Please send applications to our office (address see below).

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### Accommodation

Reservations for accommodation can be made through the **Regensburg tourist office:**

Phone: +49-941-5074410; Fax: +49-941-5074418; <http://www.regensburg.de>;

e-mail: [tourismus@regensburg.de](mailto:tourismus@regensburg.de)

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### Organization

Graduiertenkolleg / Research Training Group GRK 1910

"Medicinal Chemistry of Selective GPCR Ligands" ([www.grk1910.de](http://www.grk1910.de))

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# 8<sup>th</sup> Summer School "Medicinal Chemistry"

Graduiertenkolleg (Research Training Group) GRK1910  
September 21 - 23, 2016



## Confirmed Speakers:

*Wilhelm **Amberg**, AbbVie, Ludwigshafen, Germany*

*Annette **Beck-Sickinger**, University of Leipzig, Germany*

*Peter **Bernstein**, University of Delaware, USA*

*Dirk **Hellwig**, University of Regensburg, Germany*

*Michael **Hennig**, leadXpro, Villingen, Switzerland*

*Clemens **Lamberth**, Syngenta Crop Protection, Stein, Switzerland*

*Stefan **Laufer**, University of Tuebingen, Germany*

*Ralph **Lipp**, Lipp Life Sciences, Indianapolis, USA*

*Hans **Matter**, Sanofi-Aventis Deutschland, Frankfurt a.M., Germany*

*Alexander **Pautsch**, Boehringer, Biberach, Germany*

*Olaf **Prante**, Universitätsklinikum Erlangen, Germany*

*Kurt **Ritter**, Sanofi-Aventis Deutschland, Frankfurt a.M., Germany*

*Holger **Stark**, University of Duesseldorf, Germany*

*Timo **Stellfeld**, Bayer Healthcare, Germany*

*Patrick **Vanderheyden**, Vrije Universiteit Bruessel, Belgium*

*Beili **Wu**, Shanghai Institute of MateriaMedica (SIMM), CAS, Shanghai, China*

## Poster session:

The participants are invited to present scientific posters. A limited number of authors will be selected to give an ultra-short oral presentation (5 min, 2-3 slides; 'oral poster presentation').

## Wednesday, September 21, 2016

- 13.00 Welcome – U. Hebel, President of the UR,  
A. Buschauer and P. Gmeiner  
***Antiinflammatory Drugs***
- 13.10 Peter Bernstein  
University of Delaware, USA  
*Inflammation: A New Look at One of the Oldest Recognized Diseases*
- 14.05 Oral poster presentation
- 14.30 - Coffee break –
- 15.00 Stefan Laufer  
University of Tübingen, Germany  
*Raising the Gold Standard: Design & Development of Highly Selective JAK3 Probe*  
***Structural Biology and Drug Discovery***
- 15.55 Alexander Pautsch  
Boehringer, Biberach, Germany  
*Protein Crystallography in Drug Discovery*
- 16.50 - Coffee break –
- 17.20 Michael Hennig  
leadXpro, Villingen, Switzerland  
*Structure Based Lead Discovery for Challenging Membrane Protein Targets*
- 18.15 Oral poster presentation
- 18.40 Poster session / Beer and bretzel

## Thursday, September 22, 2016

- GPCRs and GPCR Ligands***
- 08.30 Holger Stark  
University of Düsseldorf, Germany  
Histamine H3 Receptor Ligands – From Pharmacological Tools to Drugs
- 09.25 Beili Wu  
Shanghai Institute of MateriaMedica (SIMM), CAS, Shanghai, P.R. China  
*Structural Studies of Human Purinergic Receptor P2Y1R*
- 10.20 - Coffee break -
- 10.50 Annette Beck-Sickinger  
University of Leipzig, Germany  
*Peptide Drugs to Target GPCR– State of the Art and Innovative Applications*
- 11.45 Patrick Vanderheyden  
Vrije Universiteit Brussel, Belgium  
*Receptor Residence Time: A Meaningful Parameter of Receptor Ligands?*
- 12.40 Oral poster presentation

- 13.00 - Lunch break –
- Optimization of Drugs and Agrochemicals***
- 14.00 Hans Matter  
Sanofi-Aventis Deutschland, Frankfurt a.M., Germany  
*Multidimensional Compound Optimization Combining Target Activity and ADMET Properties*
- 14.55 Wilhelm Amberg  
AbbVie Deutschland, Ludwigshafen, Germany  
*Crossing the Blood Brain Barrier: Mission (Im)-possible?!*  
- *Balancing Properties Favorable for CNS Drugs* -
- 15.50 - Coffee break -
- 16.20 Ralph Lipp  
Lipp Life Sciences, Indianapolis, USA  
*Reducing the Impact of Attrition in Discovery and Early Drug Development*
- 17.15 Clemens Lamberth  
Syngenta Crop Protection, Stein, Switzerland  
*Scaffold Hopping Approaches in the Agrochemical Lead Optimization*
- 18.10 Oral poster presentation
- 18.25 Poster Session
- 19.15 Barbecue at the University of Regensburg

## Friday, September 23, 2016

- Cancer Diagnostics and Therapeutics***
- 08.30 Dirk Hellwig  
University Hospital Regensburg, Germany  
*Theragnostics: Radioactive Receptor Ligands in Diagnostic and Therapeutic Nuclear Medicine*
- 09.25 Olaf Prante  
University Hospital Erlangen, Germany  
*Sweetening Pharmaceutical Radiochemistry by F-18-fluoroglycosylation*
- 10.20 - Coffee break -
- 10.40 Kurt Ritter  
Sanofi-Aventis Deutschland, Frankfurt a. M., Germany  
*An Introduction to Cancer Immunotherapy*
- 11.35 Timo Stellfeld  
Bayer Healthcare, Berlin, Germany  
*Discovery and Optimization of a Novel SMYD2 Chemical Probe*
- 12.30 Poster prizes  
Concluding remarks